Additional Task

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Task: state file recovery

1. What are the step take care if suppose I don't want to lose my state file what are the major thing will you take care in Terraform

Ans: Regular Backups

- Configure versioning on your remote state bucket
- Take manual snapshots before major operations (terraform state
 pull > backup.tfstate)

Access Control

- Restrict permissions to the state file
- Use IAM policies to limit who can read/modify the state

Workspace Isolation

- Use Terraform workspaces to separate state for different environments
- Prevents accidental cross-environment modifications

Enable State Locking

- Prevent concurrent operations that could corrupt state
- For S3 backend, use DynamoDB for locking:

Use Remote Backend Storage

- Configure a remote backend like S3, Azure Blob Storage, or Google Cloud Storage
- Example for AWS S3:

```
terraform {
  backend "s3" {
  bucket = "my-terraform-state-bucket"
  key = "path/to/my/state.tfstate"
  region = "us-east-1"
  }
}
```

Regular State Validation

- o Periodically run terraform plan to verify state matches actual infrastructure
- $\circ \quad \text{Use terraform state list to audit managed resources} \\$

There are the steps take care for not getting lost of state file